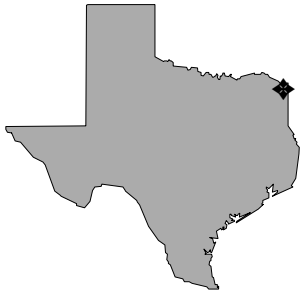
Lone Star Army Ammunition Plant NPL

Size: 15,546 acres
Mission: Load, assemble, and pack ammunition
HRS Score: 31.85; placed on NPL in July 1987
IAG Status: IAG signed in September 1990
Contaminants: VOCs, petroleum, heavy metals, and explosives
Media Affected: Groundwater and soil
Funding to Date: $16.8 million
Estimated Cost to Completion (Completion Year): $20.2 million (FY2009)
Final Remedy in Place or Response Complete Date for All Sites: FY2009



Texarkana, Texas

Restoration Background

Lone Star Army Ammunition Plant loads and packs munitions. From 1943 to 1944, the Old Demolition Area (ODA) was used to destroy faulty or nonstandard explosives. Environmental studies revealed explosives and metal contamination in the ODA. EPA therefore placed that area on the National Priorities List (NPL) in July 1987. The ODA is the only CERCLA site at the installation.

RCRA sites investigated include surface impoundments, landfills, fuel storage areas, and load lines. Investigations revealed soil contamination with solvents, metals, and explosives at some sites. At one site, groundwater is contaminated.

Interim Actions undertaken by the installation include closing two surface impoundments, installing industrial treatment facilities to treat wastewater before discharging it, and removing the bulk fuel storage area and the service station. In FY92, the installation began a RCRA Facility Investigation (RFI) for RCRA corrective action sites and completed a corrective action at one underground storage tank site.

In FY94, the installation used rotosonic drilling during EPA- and state-required field investigations of the ODA. This technique enhanced the quality of the core samples recovered, which in turn aided the installation in negotiations with regulatory agencies on Phase IV of the Remedial Investigation (RI). The University of Texas conducted a biodegradation study of installation soil that was contaminated with explosives and metals.

In FY95, the installation conducted soil boring and installed monitoring wells, accompanied by analytical sampling, for the ODA Phase IV RI. It also obtained regulatory approval for, and began sampling of, biota at the ODA. The installation conducted groundwater investigations under RCRA at the two closed surface impoundments and performed soil and groundwater investigations at the bulk fuel storage area.

In FY96, the Army collected samples of groundwater and surface soil at the ODA in accordance with EPA-approved plans. RI activities in the area were completed. The installation took soil borings and established groundwater wells for the RFI.

In FY97, the Army completed a background survey to determine ambient concentrations of contaminants for the installation. The survey report was submitted to the state after completion of all field activities. The state approved the report in September 1997.

The installation's technical review committee (TRC) includes representatives of the installation, the state, and EPA and leaders of the local community. The TRC meets quarterly to discuss current and proposed environmental actions under CERCLA.

FY98 Restoration Progress

The installation submitted a draft Record of Decision (ROD) to EPA for review. A Focused Feasibility Study and a Proposed Plan were also submitted for the Old Demolition Area. The Army decontaminated and removed cisterns and prepared closure reports. Contaminated soil at Paint Filter Site and RDX Pit K 2 was excavated. The installation also completed soil removal and decontamination activities at nine sites and completed two Relative Risk Site Evaluations.

The Army delayed implementation of natural attenuation technologies scheduled for FY98 until it determines the full nature of the contaminants. The scheduled completion of RFI activities did not occur because additional fieldwork was required.

Plan of Action

- Complete RFI activities in FY99
- Implement natural attenuation technologies in FY99
- Complete removal of ordnance debris and construction of erosion control berms in FY99
- Begin RFI activities at the G and O Pond sites in FY99

FY99 Funding by Phase and Relative Risk